

Calculation of PEP Scores for Final Data Report

The Michigan Department of Education Even Start staff contacted the author of the *Parent Education Profile* (PEP) at RMC Research to assist in the formula used for determining gain on the instrument. Christine Dwyer responded, and the following information and example should help local programs in understanding the approach that will be used to determine gain.

Example:

Scale III has five subscales and a participant's baseline scores are: 2, 1, 2, 2, and 1. The same participant's scores at the 12-month follow-up are: 3, 2, 2, 3, and 1.

To achieve the calculated individual result:

1. Average the subscales to get a Scale III baseline score
($2 + 1 + 2 + 2 + 1 = 8/5 = 1.6$ in the above example)
2. Average the subscales to get a Scale III 12-month follow-up score
($3 + 2 + 2 + 3 + 1 = 11/5 = 2.2$ in the above example)
3. Subtract to obtain the gain
($2.2 - 1.6 = .6$ gain from baseline to follow-up)

When this has been accomplished for each individual for whom you have a baseline, a 6-month follow-up (used only to demonstrate that the assessment has been administered on schedule) and a 12-month follow-up, calculate the percentage of parents for your program who made a .3 or greater gain by dividing the number assessed who achieved a .3 or greater gain by the total number assessed and multiply by 100.

Example:

45 parents have a baseline, 6-month follow-up and 12-month follow-up on Scale I
33 parents have made a .3 or greater gain on Scale I (from baseline to 12-month follow-up)

Formula for this example: $33/45 = .73 \times 100 = 73$ percent having achieved .3 or greater gain.

The same formula will apply for each Scale (I-IV).